

Title (en)
BRAKE DISC

Title (de)
BREMSSCHEIBE

Title (fr)
DISQUE DE FREIN

Publication
EP 4067685 A1 20221005 (EN)

Application
EP 22154740 A 20220202

Priority
JP 2021063619 A 20210402

Abstract (en)
To facilitate alignment of a pair of disc bodies (10) and a wheel (20), when the disc bodies (10) can be fastened to the wheel (20). A brake disc (100) includes a pair of disc bodies (10) configured to sandwich therebetween a wheel (20) for railway vehicle, each of the disc bodies (10) having a through wall (41) forming a through-hole (44) in a contact surface that contacts a brake pad to brake rotation of the wheel (20). The pair of disc bodies (10) are fastened to each other with the wheel (20) therebetween, by a fastening member (30) including a bolt (31) and a nut (32). The through wall (41) provided on one of the pair of disc bodies (10) is partially provided with a restriction wall (432) that restricts the nut (32) from rotating together with the rotation of the bolt (31) when the pair of disc bodies (10) are fastened to the wheel (20).

IPC 8 full level
F16D 65/12 (2006.01)

CPC (source: CN EP)
F16D 65/12 (2013.01 - CN); **F16D 65/124** (2013.01 - EP)

Citation (applicant)
WO 2016058792 A1 20160421 - KNORR BREMSE SYSTEME FÜR SCHIENENFAHRZEUGE GMBH [DE]

Citation (search report)
• [XAI] DE 19617154 A1 19971106 - KNORR BREMSE SYSTEME [DE]
• [A] US 2015247541 A1 20150903 - NOGAMI HIROSHI [JP], et al
• [A] US 9587690 B2 20170307 - BOFFELLI ROBERTO [IT]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4067685 A1 20221005; EP 4067685 B1 20240124; CN 115199677 A 20221018; JP 2022158604 A 20221017

DOCDB simple family (application)
EP 22154740 A 20220202; CN 202210198158 A 20220302; JP 2021063619 A 20210402